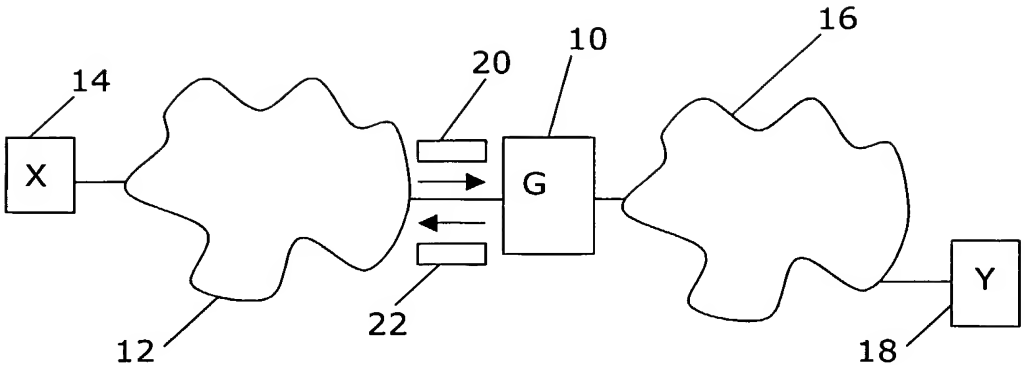

FIG.1

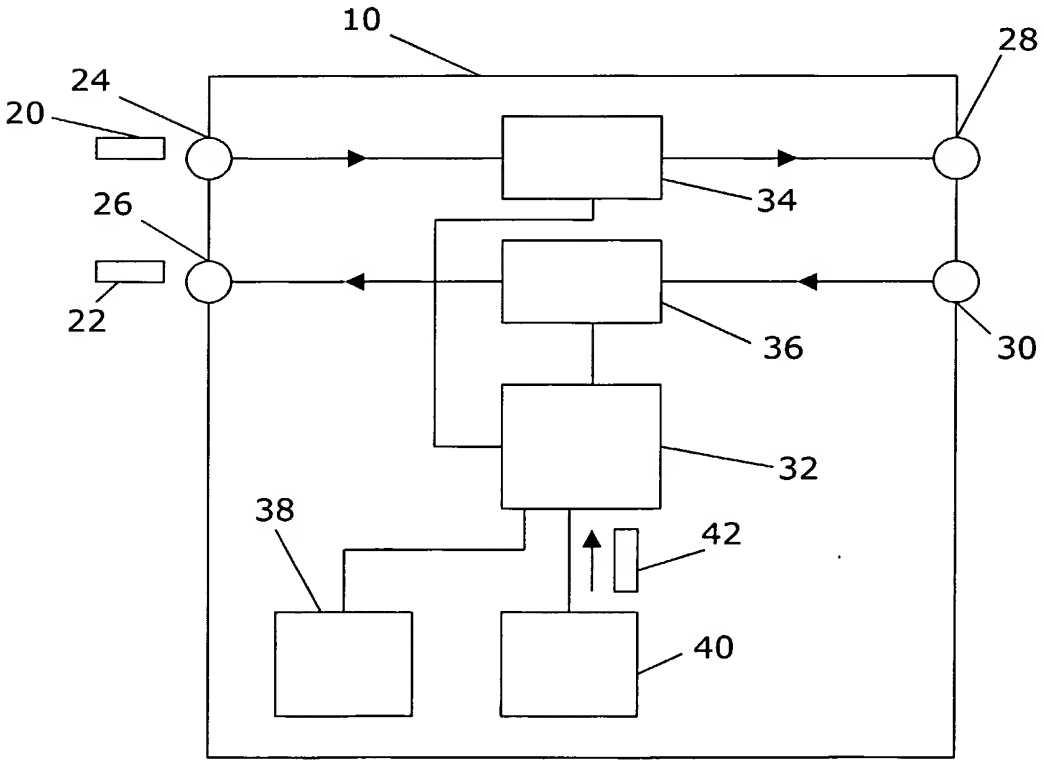

FIG.2

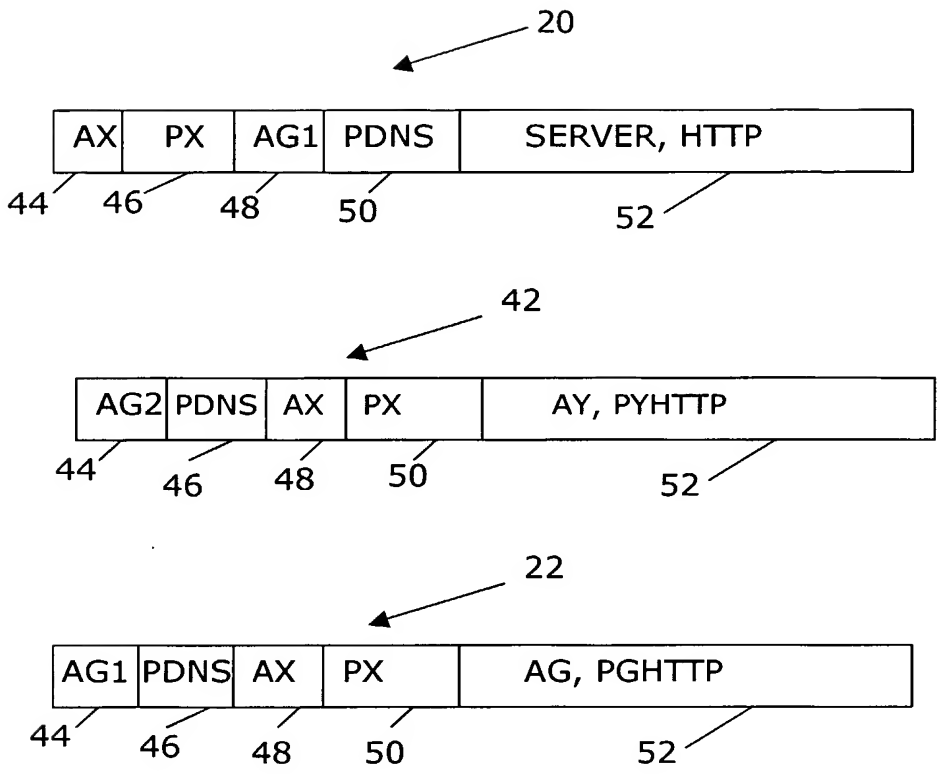
20
AX
PX
AG1
PDNS
SERVER, HTTP
44
46
48
50
52
42
AG2
PDNS
AX
PX
AY, PYHTTP
44
46
48
50
52
22
AG1
PDNS
AX
PX
AG, PGHTTP
44
46
48
50
52

FIG.3

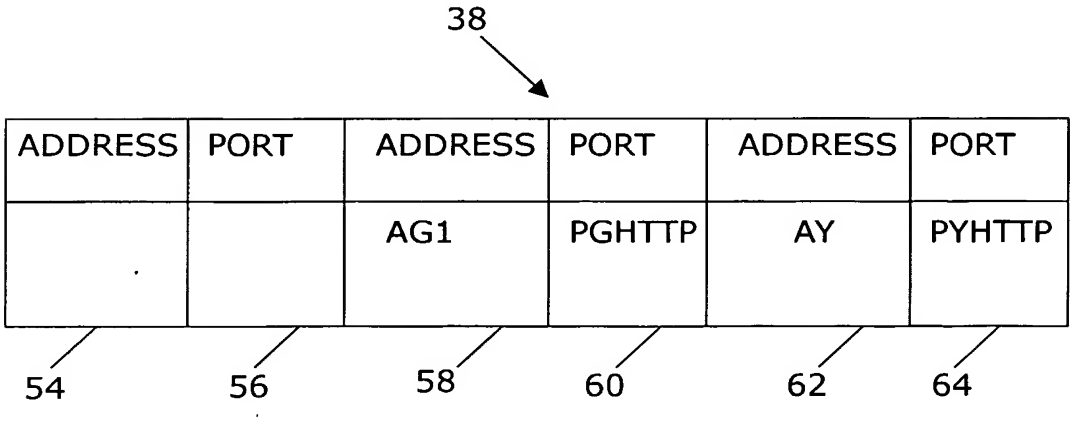
38
ADDRESS
PORT
ADDRESS
PORT
ADDRESS
PORT
AG1
PGHTTP
AY
PYHTTP
54
56
58
60
62
64

FIG.4

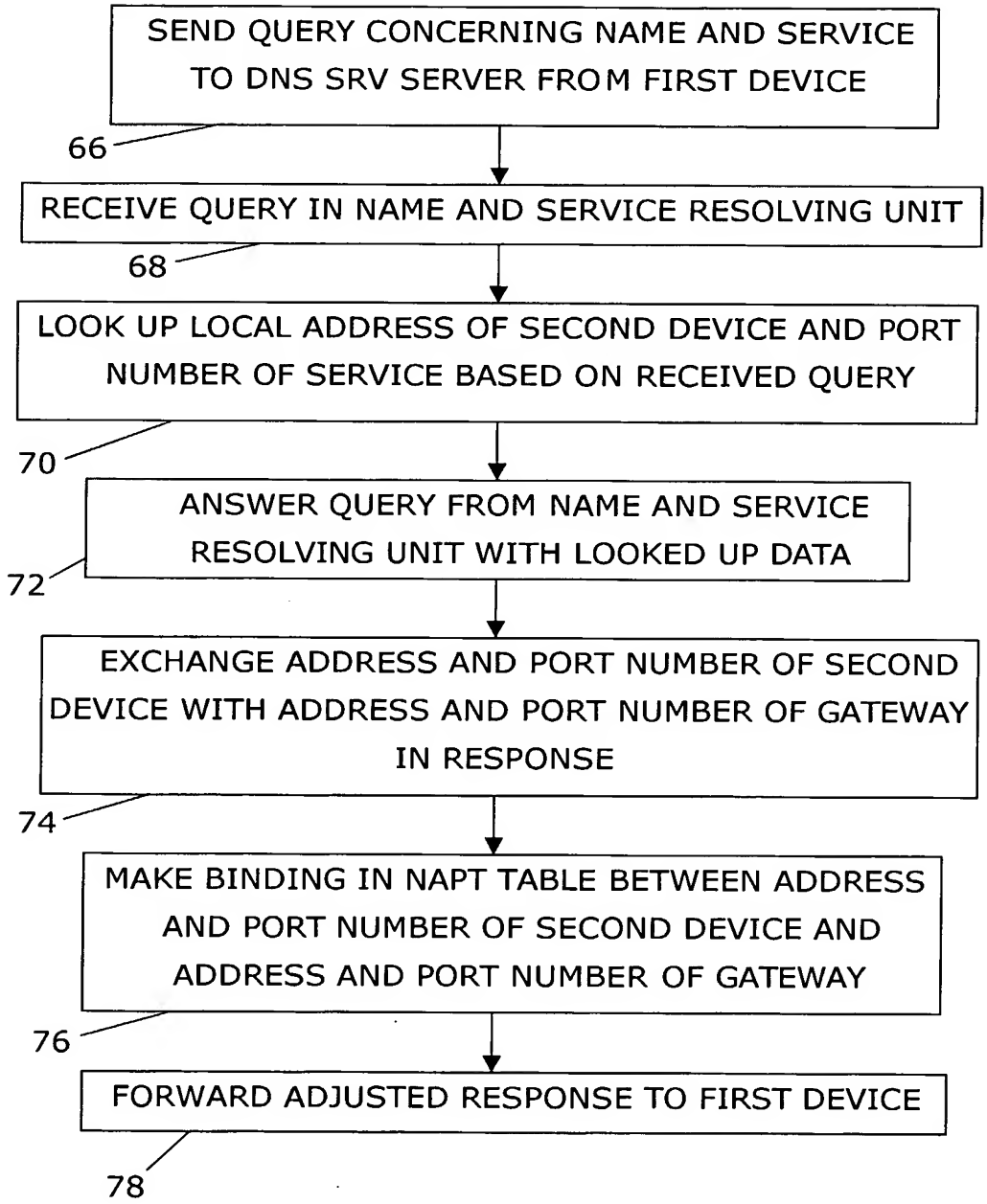
SEND QUERY CONCERNING NAME AND SERVICE TO DNS SRV SERVER FROM FIRST DEVICE
66
RECEIVE QUERY IN NAME AND SERVICE RESOLVING UNIT
68
LOOK UP LOCAL ADDRESS OF SECOND DEVICE AND PORT NUMBER OF SERVICE BASED ON RECEIVED QUERY
70
ANSWER QUERY FROM NAME AND SERVICE RESOLVING UNIT WITH LOOKED UP DATA
72
EXCHANGE ADDRESS AND PORT NUMBER OF SECOND DEVICE WITH ADDRESS AND PORT NUMBER OF GATEWAY IN RESPONSE
74
MAKE BINDING IN NAPT TABLE BETWEEN ADDRESS AND PORT NUMBER OF SECOND DEVICE AND ADDRESS AND PORT NUMBER OF GATEWAY
76
FORWARD ADJUSTED RESPONSE TO FIRST DEVICE
78

FIG.5

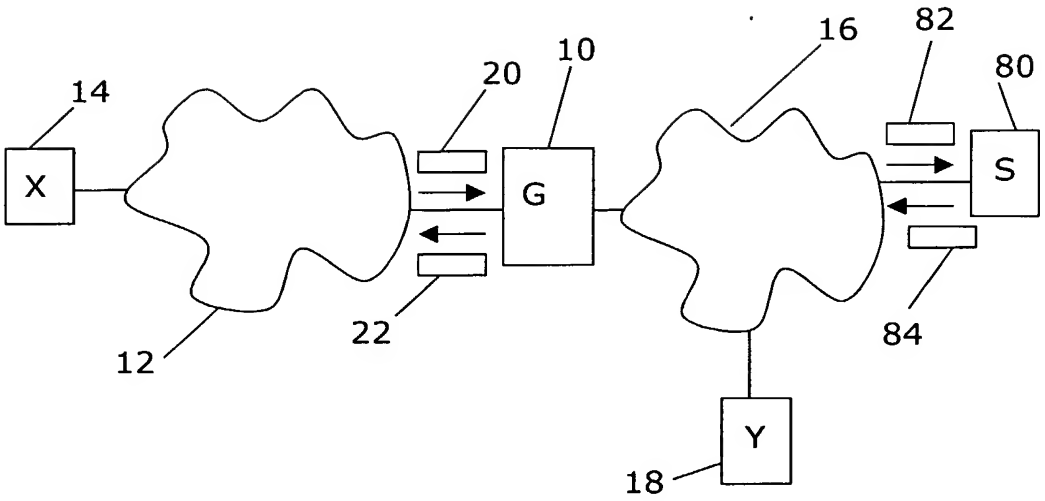

FIG.6

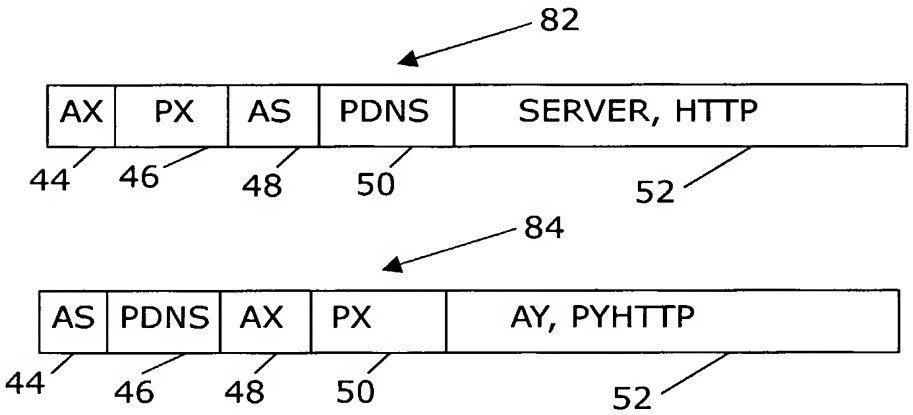

FIG.7

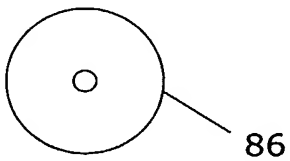

FIG.8